

Patent claims

1 A method for designing the control of a
complete process which comprises a number of individual
5 processes,

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- a) in which functionalities of the individual
processes are identified,
b) in which a validation is performed by
automatically verifying an interplay of the
10 functionalities in accordance with an input to the
complete process, to the effect that each
individual process is not impeded during the
operation,
c) in which data for controlling the complete process
15 are determined from a result of the validation.

2. The method as claimed in claim 1, in which a
sequence optimization is performed in addition to step
1c).

3. The method as claimed in claim 1 or 2, in which
20 the data for the control are determined in the form of
an executable code.

4. The method as claimed in one of claims 1 to 3,
in which one of the functionalities of the individual
processes is a software unit for controlling the
25 individual process affected.

5. The method as claimed in one of the preceding
claims, in which an individual process is impeded if
one of the following conditions is met:

- a) the individual process is blocked by another
30 individual process;
b) the individual process reaches an unauthorized
state or a state endangering the operation of the
complete system.

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6. The method as claimed in one of the preceding claims, in which the control of individual processes of an automatic placement machine is designed.

7. The method as claimed in one of the preceding
5 claims, in which the data determined for controlling
the complete process are used for controlling a
technical installation.

8. An arrangement for designing the control of a complete process which comprises a number of individual processes, comprising a processor unit which is set up in such a manner that

- a) functionalities of the individual processes can be identified;
- b) a validation can be performed by automatically verifying an interplay of the functionalities in accordance with an input to the complete process, to the effect that each individual process is not impeded during the operation;
- c) data from a result of the validation can be used for controlling the complete process.

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